

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of Report: 10/26/05

DSR Number: 019-05-015 R

Project Number: GDD7 W8 Kinner Gully (L-8)

NRCS Entry Only

Eligible: YES X NO
Approved: YES X NO
Funding Priority Number (from Section 4) 1de
Limited Resource Area: YES NO X

Section 1B Sponsor Information

Sponsor Name: Gravity Drainage Board 7 W 8

Address: P.O. Box 173

City/State/Zip: Iowa, LA 70647

Telephone Number: 661 - 1352

Fax:

Section 1C Site Location Information

County: Calcasieu Parish

State: LA

Congressional District: 07

Latitude: Start: N 30.26328 End: N30.26194

Longitude: Start: W 93.11519 End: W 93.12099

Section: 18, Township: 9 S. Range: 7 W.

UTM Coordinates:

Drainage Name: Kinner Gully (L-8)

Reach: Between Ira Breaux Rd. and Mark LeBleu Rd. (See Lat/Long)

Damage Description: Trees, branches and other debris in channel causing blockage and increased flooding to homes

Section 1D Site Evaluation

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding , streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding upstream of channel blockage where homes and school is located
Event caused a sudden impairment in the watershed?*	X		Hurricane deposited debris in channel that will likely cause flooding after next major rainfall event
Imminent threat was created by this event?**	X		Flood damage to homes and school likely after next major rainfall event.
For structural repairs, not repaired twice within ten years?***	X		No evidence of repairs to pipes culverts or roads in past several years
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO

Comments: Local drainage district has been notified

** Regulation

*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. 1 of 14

Approved 7/2005

Section 1E Proposed Action

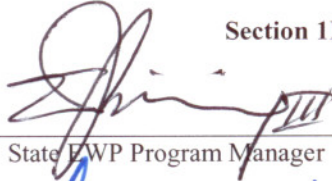
Describe the preferred alternative from Findings: Section 5 A:

Remove downed trees, branches and other debris from alternating sides of channel and haul debris from site to land fill

Total installation cost identified in this DSR: \$27,650

Section 1F NRCS State Office Review and Approval

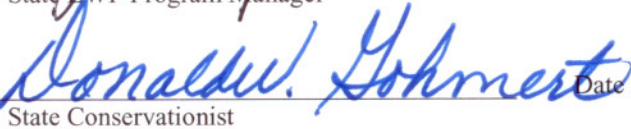
Reviewed By:


State EWP Program Manager

Date Reviewed:

11/14/05

Approved By:


State Conservationist

Date Approved:

11/14/05

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief of NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
		Remove tree logs and debris from either side of channel and haul to landfill	Leave tree logs and debris in channel	Remove tree logs and debris from channel. Stack and burn onsite
2D Effects of Alternatives				
Soil				
Bank Erosion	Stable except for exposed soil around uprooted trees on stream bank	Cause temporary increase in bank erosion from removal activities on access side of channel.	Erosion from root mass will stabilize, but flooding will cause more bank erosion and undercutting	Cause temporary increase in bank erosion from removal activities access side of channel.
Compaction	No compaction	Heavy equipment will moderately compact soil at access points	No compaction	Heavy equipment will moderately compact soil at access points on both sides.
Water				
Flooding	Property upstream of debris blockage is subject to damages from flooding after next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events	Property upstream of debris blockage will continue to be subject to damages from next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events
Inadequate outlets	Debris is blocking outlets	Outlets will be opened, capacities will be increased and flooding will be reduced	Debris will continue to accumulate and further reduce outlet capacities	Outlets will be opened, capacities will be increased and flooding will be reduced
Excessive Sediments and turbidity	Stream flow is minimal and no sediment problems will occur until next heavy rainfall event. Water in stream is black with sewage on lower end.	Disturbance from heavy equipment and removal of debris will cause short term increase in sed. and turbidity, but will reduce long term impacts Sewage problems will remain	Sediments and turbidity will increase as a result of stream bank erosion and scour damage following next heavy rainfall event. Sewage problems will remain	Disturbance from heavy equipment and removal of debris will cause short term increase in sed. and turbidity, but will reduce long term impacts. Sewage problems will remain
Stream health (including SVAP))	4.9 (Poor Conditions)	4.9 (Poor Conditions)	4.7 (Poor Conditions)	4.9 (Poor Conditions)
Air				
Particulate Matter less than PM 10	No particulate matter is being generated by debris in channel	Will cause slight increase in particulate matter as result of disturbance, but will remain below 10mm	No change in particulate matter	Would cause short term increase in particulate matter as result of burning.
Plant				
Productivity, Health and Vigor of Riparian Vegetation	Riparian area was mostly cleared before storm. Some remaining trees have blown into channel. Remainder of riparian is cool season grass	No standing trees will need to be removed for access. Impact to riparian area will be negligible.	No trees will be disturbed by removal.	No standing trees would be removed for access. Impact to riparian area would be negligible
Productivity, and Health of Aquatic Vegetation	Aquatic plants are limited to microscopic algae	Removal of debris will not impact aquatic vegetation.	Stream aquatic growth will remain poor with limited vegetation	Removal of debris will not impact aquatic vegetation.
Animal				
Inadequate Cover/Shelter for Stream Fisheries (also see SVAP)	Fishery habitat is limited do to water quality and lack of instream cover	Poor water quality caused by sewage and limited instream cover will remain. Debris removal will have minimal adverse impact	Poor water quality caused by sewage and lack of cover will remain as limiting factors for fisheries	Poor water quality caused by sewage and limited instream cover will remain. Debris removal will have minimal adverse impact
Inadequate Cover/Shelter for Wildlife along Stream Corridor	Riparian forest is cleared and providing minimal cover and green belt for urban habitat.	There will be no reduction in cover along the channel.	Riparian forest buffers will remain limited because of previous clearing	There will be no reduction in cover along the channel.
Other				
Aesthetics	Scattered trees results in "park like" conditions and attractive landscape except for impacts of downed trees	Debris removal will slightly improve the overall landscape by removing downed timber and debris	The landscape will remain the same except for any changes that may be caused by flooding	Debris removal will slightly improve the overall landscape by removing downed timber and debris
Mosquito and Insect Vectors	Few small pools of stagnant and sewage water provide mosquito habitat	The number of stagnant pools providing habitat for mosquito will be reduced.	The stagnant pools providing habitat for mosquitos will remain.	The number of stagnant pools providing habitat for mosquito will be reduced.

Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	Poor Water Quality, Low DO, High BOD	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.	Decreased water quality. Increased blockage and flooding	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	Use FOTG guidance. State level review needed	Same as existing	Same as existing	Same as existing
Endangered and Threatened Species	Use FOTG guidance USFWS/LDWF list shows species in parish, but none are likely in project area	No impacts	No impacts	No impacts
Environmental Justice	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area
Essential Fish Habitat	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area
Fish and Wildlife Coordination	No stream modification proposed	Will coordinate if issues arise in CWA 404 permit application process	N/A	Will coordinate if issues arise in CWA 404 permit application process
Floodplain Management	Project boundary is within 100 year floodplain	Improve drainage and reduce level of flooding to pre hurricane conditions	N/A	If selected, project will improve drainage and reduce level of flooding to pre-storm conditions
Invasive Species	Chinese Tallow trees along channel in several segments	Will remove some invasive trees at access locations and allow increased control opportunities	Will likely increase	Will remove some invasive trees at access locations and allow increased control opportunities
Migratory Birds	Provides habitat for neotropical migrants	Slightly reduce habitat for neotropical migrants where trees are removed	Continue to provide same level of habitat	Slightly reduce habitat for neotropical migrants where trees are removed
Natural Areas	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area
Prime and Unique Farmlands	Use FOTG guidance and soil survey. Gy soil occurs in project area Gy soil project area, but not prime in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area
Riparian Areas	Downed timber has further reduced and altered the already disturbed forested riparian habitat	No standing timber or noticeable impacts on riparian areas are expected	Downed timber and altered riparian area will remain until natural process restores habitat	No standing timber or noticeable impacts on riparian areas are expected
Scenic Beauty	Use FOTG guidance. Downed timber has reduced aesthetics of stream and riparian areas	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted	Downed timber in stream and along riparian areas will continue to reduce aesthetics.	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted
Wetlands	Downed timber and debris has altered wetland functions and values	Removal of debris will restore nature wetland functions and values to pre-storm conditions	Wetland functions and values will remain altered.	Removal of debris will restore nature wetland functions and values to pre-storm conditions
Wild and Scenic Rivers	Use FOTG guidance. No listed streams affected by project	No impact on listed streams or rivers	No impact on listed streams or rivers	No impact on listed streams or rivers

Completed By: Steve Tully, BiologistDate: 10/25/2005

DSR NO: 019-05-015R

Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
75 residences (5 east of Park Rd and 70 between Park Rd and N Perkins Ferry Rd)	\$9,000,000	0.10	\$900,000
Properties Protected (Public)			
Moss Bluff Middle School and recreation fields	\$22,000,000	0.01	220,000
Business Losses			
Other			
Total Near Term Damage Reduction \$			1,120,000
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			1,011,000

Completed By: David Williams Date: 10/21/05

DSR NO: 019-05-015R

Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?		X	
Has access to a hospital or medical facility been impaired by watershed impairment?		X	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Access to residences by emergency personnel (Fire, police, ambulance) would be limited if future flooding occurs due to watershed impairment.

Completed By: David Williams Date: 10/21/05

Section 2H Group Representation and Disability Information**This section is completed only for the preferred alternative selected.**

Group Representation	Number
American Indian/Alaska Native Female Hispanic	0
American Indian/Alaska Native Female Non-Hispanic	1
American Indian/Alaska Native Male Hispanic	0
American Indian/Alaska Native Male Non-Hispanic	0
Asian Female Hispanic	0
Asian Female Non-Hispanic	4
Asian Male Hispanic	0
Asian Male Non-Hispanic	7
Black or African American Female Hispanic	0
Black or African American Female Non-Hispanic	13
Black or African American Male Hispanic	0
Black or African American Male Non-Hispanic	11
Hawaiian Native/Pacific Islander Female Hispanic	0
Hawaiian Native/Pacific Islander Female Non-Hispanic	0
Hawaiian Native/Pacific Islander Male Hispanic	0
Hawaiian Native/Pacific Islander Male Non-Hispanic	0
White Female Hispanic	6
White Female Non-Hispanic	313
White Male Hispanic	4
White Male Non-Hispanic	293
Total Group	667

Census tract(s) 22.03, Blocks 1005, 1006, 1007, 1008, 1011Completed By: David Williams Date: 10/21/05

DSR NO: 019-05-015R

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access to channel from private properties will require easements/permission to be obtained by sponsor.

404 PERMIT REQUIRED

CWA permit and Water Quality certification possibly needed because of potential of grubbing stumps.

Mitigation Description:

Access will be from one side of channel. Access should be from east side of channel from starting point down to Goos Rd. where there is an existing right of way road. Access will vary from east side to west side in areas downstream from Goos Rd. depending on location of houses. Debris will be removed from project area and disposed of in an approved landfill. Proposed action will restore hydraulic function to downstream wetlands and eliminate stagnant pools in channel, reducing vector/disease potential. Action will be completed without interruption to reduce impact to wildlife.

Agencies, persons, and references consulted, or to be consulted:

Corps of Engineers, New Orleans District
LA DEQ

LDFW

DSR NO: 019-05-15R

Section 3 Engineering Cost Estimate

Completed By: Danny Martin Date: 10/26/05

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	NA	\$5,000
Channel Obstruction Removal	1900	LF	\$11.50	\$21,850
Seeding, sprigging, mulching	1	AC	\$800	\$800
Total Installation Cost (Enter in Section 1F)				\$27,650.00

Alternative Recovery Measure* (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	NA	\$5,000
Channel Obstruction Removal	1900	LF	\$10.00	\$19,000
Seeding, sprigging, mulching	1	AC	\$800	\$800
Total Installation Cost				\$24,800.00

*Alternative is Stacking and Burning Debris Material

Unit Abbreviations:

AC Acre
CY Cubic Yard
EA Each
HR Hour
LF Linear Feet
LS Lump Sum
SF Square Feet
SY Square Yard
TN Ton
Other (Specify)

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application
(see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifier
1. Is this an exigency situation?	X			1e
2. Is this a site where there is serious, but not immediate threat to human life?		X		
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	X			
4. Is this site a funding priority established by the NRCS Chief?	X			
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			e	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter priority computation in Section 1A, NRCS Entry, Funding Priority Number.

Remarks:

General water quality will be improved over entire reach. Adjacent wetlands will be restored and maintained.

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

X Has been sufficiently analyzed in the EWP PEIS (reference all that apply)
Chapter 5.2.2.1.2
Chapter _____
Chapter _____
Chapter _____
Chapter _____

_____ May require the preparation of an environmental assessment or environmental impact statement.
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Title: Stephen Tully, Biologist Date: 10/25/05

Section 5B Comments:

Section 5C

Sponsor Concurrence: _____

Sponsor Representative

Title: Mike Marcante Date: 11-8-05

Section 6 Attachments:

- A. Location Map
- B. Site Plan or Sketches
- C. Other (explain)

INSTRUCTIONS FOR COMPLETING THE NRCS-PDM-20, DSR

	Explanation of Requested Item	Who Completes
Section 1	Enter Site Sponsor, Location, Evaluation, Selected Alternative, and Reviewed and Approval Signatures.	NRCS completes with voluntary assistance from Sponsor except for NRCS only portion of Section 1A.
1A	Enter the Date, DSR Number, Project Number. For NRCS only enter Eligible Yes/No, Approved Yes/No, Funding Priority Number, and Limited Resource Area Yes/No.	
1B	Enter Sponsor Name, Address, Telephone, Fax	
1C	Enter site location County, State, Congressional District, Latitude, Longitude, Section, Township, Range, UTM Coordinates, Drainage Name, Reach within drainage, and Damage Description.	
1D	Enter Yes/No and any Remarks for the Site Evaluation information. Any No response means the site is not eligible for EWP assistance and no further information is necessary to complete the DSR. (See NEWPPM 390-502.03 and 390-502-04) Enter Yes/No regarding whether the affected public has been informed of the EWP program.	
1E	Enter the proposed treatment and the cost of installation.	NRCS only.
1F	NRCS Review and Approval.	

	Explanation of Requested Item	Who Completes
Section 2	Use available natural resource, economic, and social, information, including the EWP Programmatic Environmental Impact Statement (PEIS), to <u>briefly</u> describe the effects of the alternatives to the proposed action including the “no action” alternative. The no action alternative is the predicted future condition if no action is taken. Typically, the proposed action and no action are the alternatives considered for EWP recovery measures due to the focus on repairing or preventing damages within a watershed. However, in cases where additional alternatives are considered, include all pertinent information to adequately address the additional alternatives (e.g., proposed action would be bio-engineering for bank stabilization, no action alternative, and an additional alternative may be riprap for bank stabilization). Do not leave blanks where a consideration is not applicable, use NA to indicate the factor was considered but not applicable for the alternative.	NRCS completes with voluntary assistance from Sponsor.
2A	List all resource concerns which are relevant to the area of the proposed action and alternatives. Refer to the National Bulletin 450-5-8 TCH-COMPLETING AND FILING MEASUREMENT UNITS FOR RESOURCE CONCERNS IN THE FIELD OFFICE TECHNICAL GUIDE (FOTG). Note: the affected area may extend beyond the construction foot print (e. g. where water quality or water rights are affected downstream of the site.)	
2B	Provide a brief description of the present condition of each resource concern listed in 2A. Quantify conditions where possible. Reference accompanying photographic documentation.	
2C	Briefly summarize the practice/system of practices being proposed, as well as the “no action” alternative is predicted future condition if no action is taken.	
2D	Document the efforts of the proposed action and alternatives for the considerations listed in 2A. Reference applicable quality criteria, information in the CPPE, and quantify effects whenever possible. Consider both long-term and short-term effects. Consider any effects which may be individually minor but cumulatively significant at a larger scale or over an extended time period. Clearly define the differences between proposed action, no action, and the other alternatives.	

2E	Enter Special Environmental Concerns for Clean Water Act Waters of the U.S., Coastal Zone Management Areas, Coral Reefs, Cultural Resources, Endangered and Threatened Species, Environmental Justice, Essential Fish Habitat, Fish and Wildlife Coordination, Floodplain Management, Invasive Species, Migratory Birds, Natural Areas, Prime and Unique Farmlands, Riparian Areas, Scenic Beauty, Wetlands, and Wild and Scenic Rivers for each alternative considered. In the case where the selected alternative from Section 5A impacts a Special Environmental Concern, additional information, coordination, permitting or mitigation may be required and adequate documentation should be prepared and attached to the DSR to identify how NRCS or the Sponsor addressed the concern.	
2F	<p>Identify Property Protected both private and public, business losses and other economic impacts considered for each alternative. Enter the dollar value of the potential future damages if no action is taken in the Future Damage (5) column. This would be the estimate of the value lost if the EWP recovery measure is not installed. Use the repair cost or damage dollar method to determine the estimate of future damages. The repair cost method uses the costs to return the impaired property, good, or services based on their original pre-event condition or value. The damage dollar method uses an estimate of the future damage to value (e.g. if the structure is condemned, then enter the value of the structure). Enter the estimated amount based upon existing information or information furnished by the sponsor, contractors or others with specific knowledge for recovery from natural disasters for each alternative considered. Often market values for properties or services can be obtained from personnel at the local county/parish tax assessment office.</p> <p>The DSI team needs to determine the Damage Factor (%) which is a coefficient that indicates the degree of damage reduction to a property that is attributed to the effect of the proposed EWP recovery measures. Use an appropriate estimate of how much of the damage the EWP recovery measure will avoid for the alternative being considered. If the recovery measures from a single site will prevent 100 percent of the damage use 100 percent.</p> <p>The Near Term Damage Reduction is the Future Damage (\$) times the Damage Factor (%). Sum the Near Term Damage Reduction values to calculate the Total Near Term Damage Reduction.</p> <p>Enter the Net Benefit which is computed by subtracting the Cost from section 3 from the total near term damage reduction.</p> <p>The economic section must be completed for each alternative considered. Attach additional sheets as necessary.</p>	
2G	<p>Enter information to describe the potential social impacts and considerations for each alternative. Answer Yes or No and any remarks necessary to adequately address each question.</p> <p>The information may be obtained through interviews with community leaders, government officials or sponsors.</p> <p>Factors such as road closures, loss of water, electricity, access to emergency services are used when answering whether the community as a whole has been impaired.</p> <p>This information is part of the environmental evaluation portion of the DSR but may be pertinent in Section 4 regarding priorities.</p> <p>The Social Considerations Section must be completed for each alternative considered. Attach additional sheets as necessary.</p>	
2H	Enter the Group Representation for the preferred alternative. Use the most recent census tract information based upon where the EWP recovery measures are located.	Sponsor completes.

2I	Enter whether easement, permissions, or permits, and mitigation will require consultation or coordination for the selected alternative (e.g., Clean Water Act section 404 permit, Endangered Species Act section 10 permits, and any State or county permits or requirements). Describe mitigation to be applied that will offset any adverse impacts and attach any documentation from other agencies regarding mitigation requirements.	NRCS completes with voluntary assistance from Sponsor.
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	Explanation of Requested Item	Who Completes
Section 3	Enter Proposed Recovery Measure(s) including Quantity, Units, Unit Cost, and Total Amount Cost. Enter sum of all Proposed Recovery Measure Costs to calculate Total Costs. Enter Total Installation Costs in Section 1F. The Engineering Cost Estimate must be completed for each alternative considered. Attach additional sheets as necessary.	NRCS completes with voluntary assistance from Sponsor.

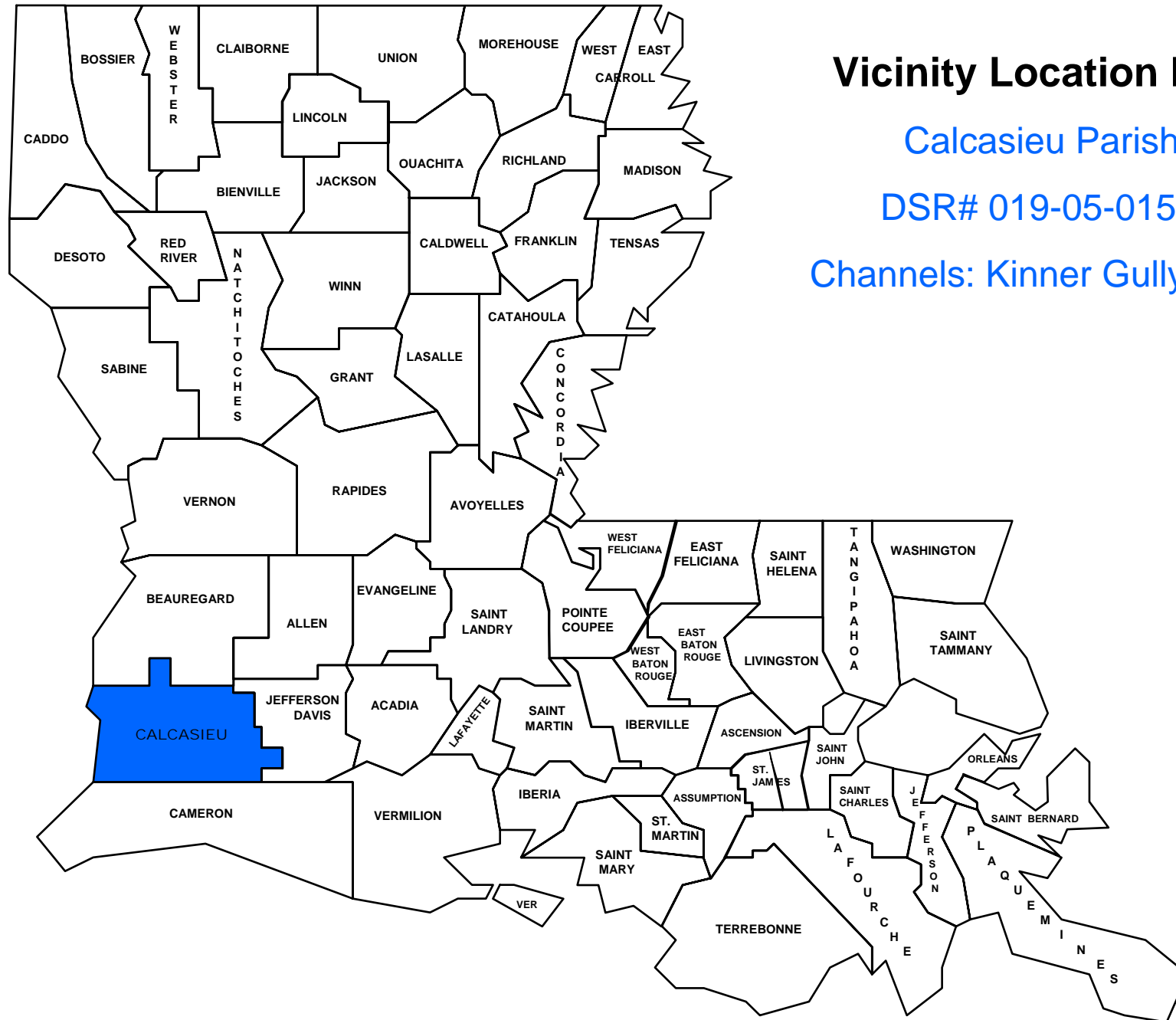
	Explanation of Requested Item	Who Completes
Section 4	This section is used to determine the Funding Priority for the preferred alternative and sequence for initiating recovery measures. Enter Yes/No for questions 1 through 4 and enter the number (exigency 1, serious threat to human life 2, etc.) in the right column, Ranking Number Plus Modifier. Complete the Modifier portion by placing the alphabetic indicator a. through f. in the Modifier column. Complete the Ranking Number Plus Modifier column by entering the alphabetic indicator(s) that exists within the site. The number of the site designates the priority (e.g., a site with a designation of 2 is a higher priority than a site with a designation of 3). The modifiers increase the priority for the same numeric site (e.g., a site with a designation of 1a, would be a higher priority than a site with a designation of 1, a site with a designation of 2bc would be a higher priority than a site designated as 2b). Enter the Funding Priority in Section 1A.	NRCS completes with voluntary assistance from Sponsor.

	Explanation of Requested Item	Who Completes
Section 5	Enter the Findings, Rationale Supporting Findings, NRCS Representative signature and Comments, and Concurrence signature by the Sponsor(s).	NRCS completes.
5A	Indicate the preferred alternative and check the applicable finding being made. The NRCS Representative signs indicating the Finding selected. If the proposed action was adequately addressed in the PEIS, check all appropriate chapter paragraphs.	
5B	Explain the rationale for making the finding. Cite any references, analysis, data, or documents which support the finding. Add any additional pages or documents as necessary. To find that an action has been sufficiently analyzed in an existing NRCS environmental document, the document must cover an adequate description of the action proposed for implementation.	
5C	Enter any additional Comments.	
5D	Sponsor(s) review and concurrence.	Sponsor(s) signature.

Section 6	Include attachments for location map, site sketch or plan and other information as needed.	NRCS completes with voluntary assistance from Sponsor.
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SECTION 6

ATTACHMENTS



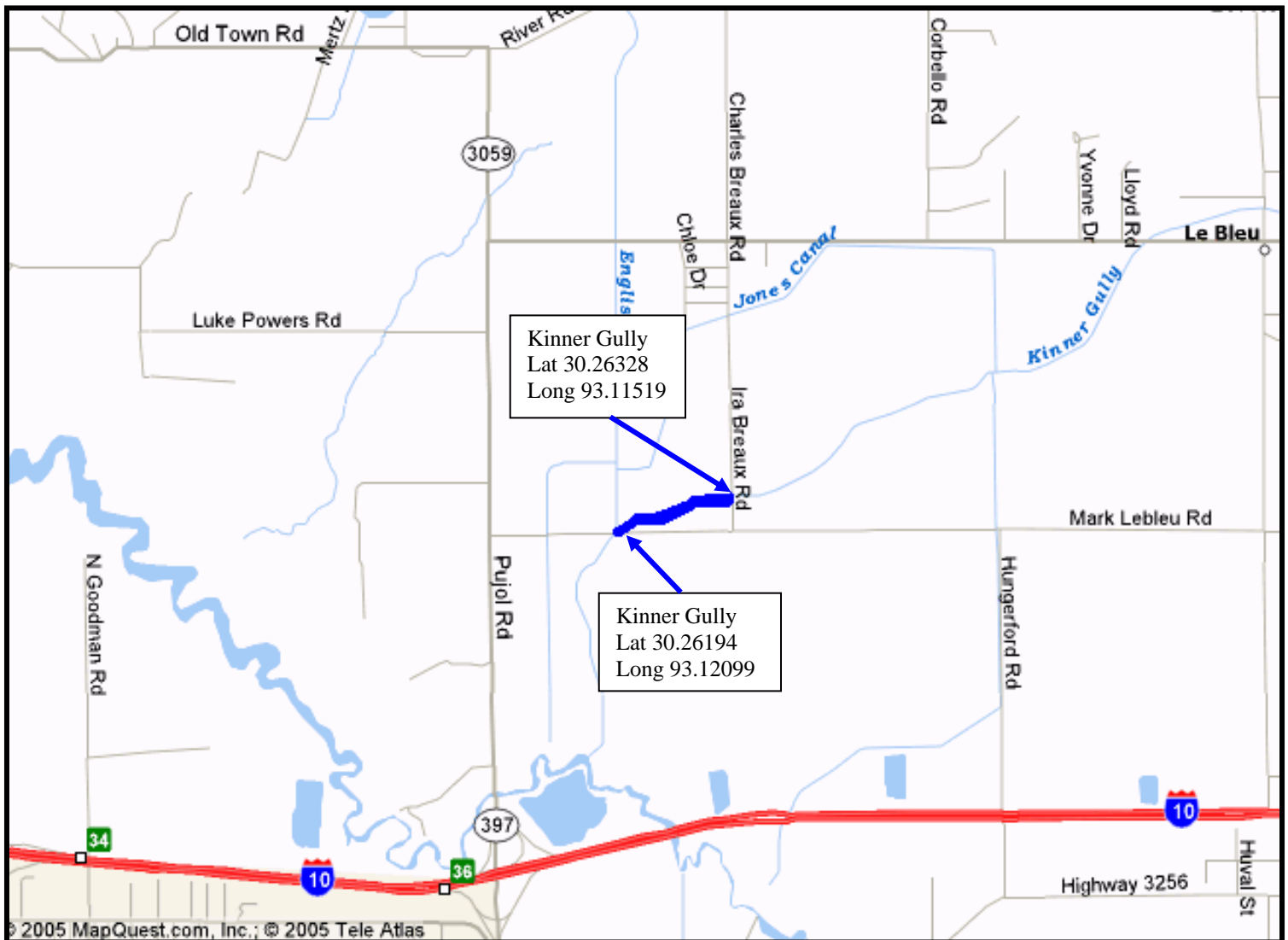
Vicinity Location Map

Calcasieu Parish

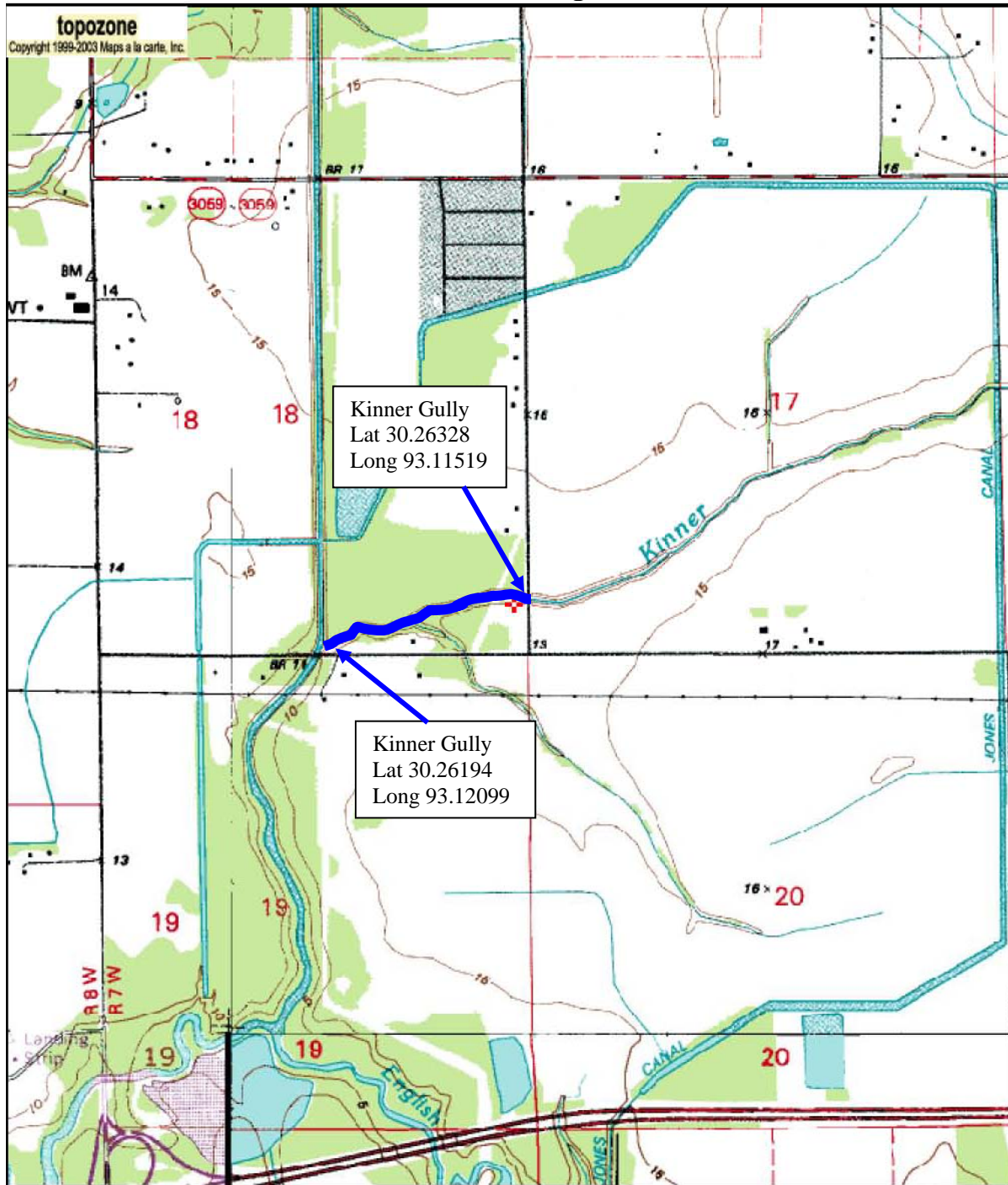
DSR# 019-05-015R

Channels: Kinner Gully (L-8)

SITE MAP
DSR 019-05-015R
Channel: Kinner Gully
Calcasieu Parish
Estimated Reach Length 1,900 LF



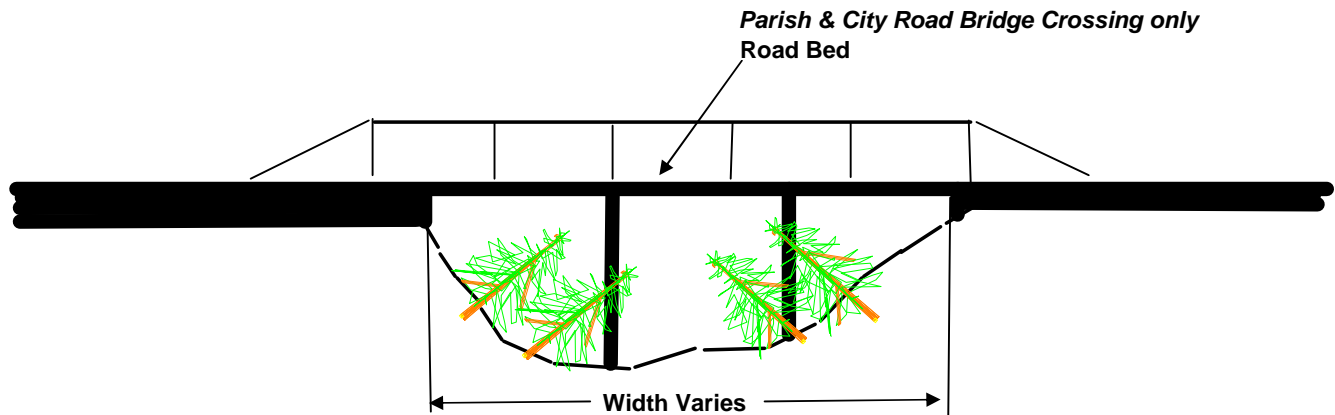
TOPO MAP
DSR 019-05-015R
Channel: Kinner Gully
Calcasieu Parish
Estimated Reach Length 1,900 LF



0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi
Map center is 30.2633°N, 93.1152°W (WGS84/NAD83)
Hecker quadrangle
Projection is UTM Zone 15 NAD83 Datum

M=2.614
G=-0.058

Debris Removal



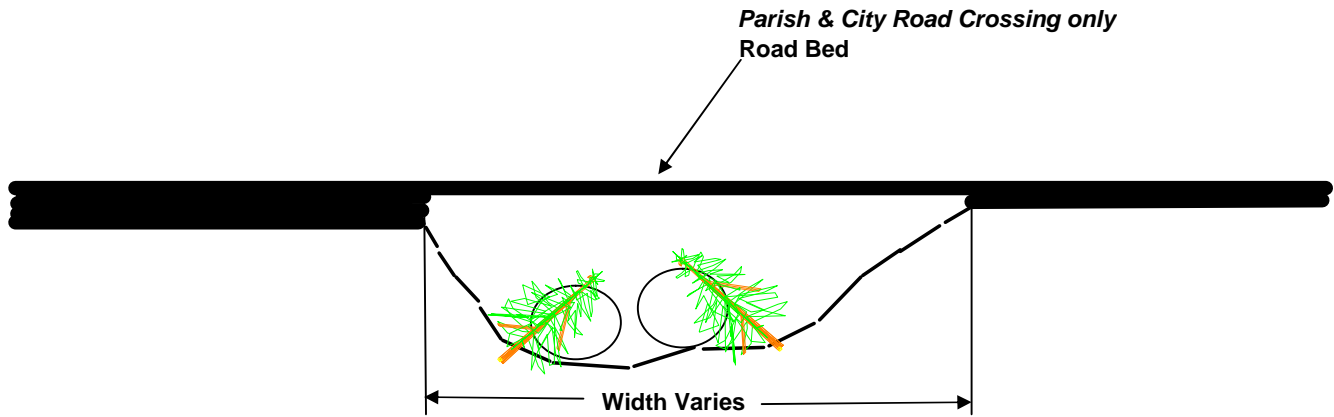
Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge

Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

Debris Removal



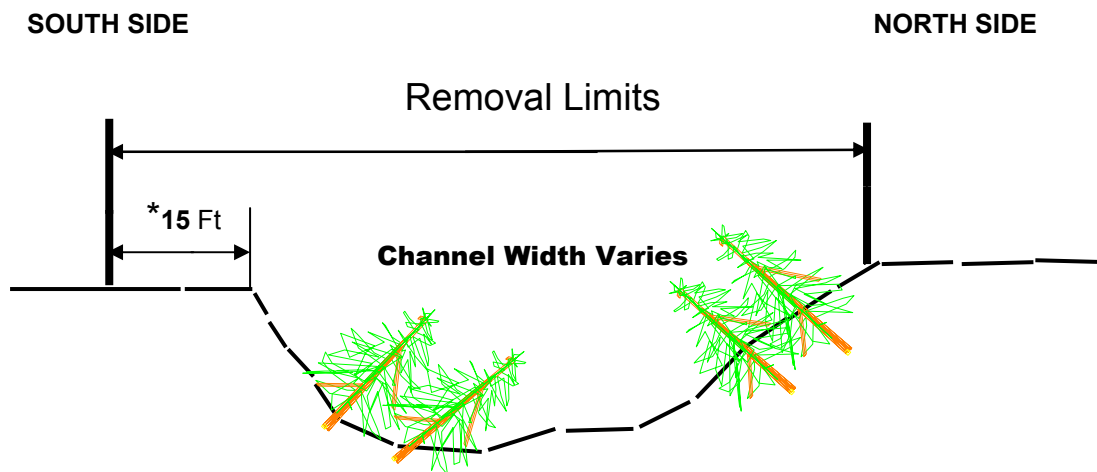
Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts

Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

Debris Removal



Typical Section Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note:** Rights of way on south side only, except in locations where structures do not permit as concurred in by the COTR

Exception it may be possible that trees which were located outside of the the rightaway may have fallen into the right of way, these trees will be remove which may be located outside of the right of way.

Calcacieu Parish Kinner Gully, Iowa, LA	DSR No: 019-05-015R	Selected Alternative
Section 5 Engineering Cost Estimate Worksheet		
Completed By: Danny Martin		Date: 26-Oct-05

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
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	Channel CFD-1					
	Latitude	Longitude	Latitude	Longitude	Latitude	Longitude
Downstream Start:	30.26328	-93.11519				
Upstream End:	30.26194	-93.12099				

Estimated Length of Work Segment (ft): 1,900 (Debris obstruction is not continuous over reach)

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$5,000.00	\$5,000
2	Channel Obstruction Removal	1,900	LF	\$11.50	\$21,850
3	Seeding, Sprigging and Mulching	1	AC	\$800.00	\$800
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost \$27,650

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
500 Ft/Day	500 Ft	3.80 Days	<u>4</u> Days

Estimated Cost of Equipment with Labor *(Per Mike Kennedy's Email 09/22/04)*

Description of Work: Light	Cost per LF
	\$11.50

Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No. of Segment	Acres	Cost per Ac	Total Cost
1,900 Ft.	15 Ft.	2	1	\$800	\$800

Comments:

Selected alternative is to remove debris from one side of channel and haul debris away from flood plain.
 Access from the east on the south side of channel at Ira Breaux Rd.
 Access from west end on the south side of channel off of Mark LeBleu Rd.

Channel Obstruction Evaluation

DSR# 015R

SITE INFORMATION

Parish: CALCASEU	Site: KINNER GULLY	
City: IOWA		
Sponsor:	Reach:	From -
Date: 10/26/05		To -
Evaluation Team: RACHEL MANUEL, DANNY MARTIN STEVE MIKE		

PHOTO NUMBERS AND BRIEF DESCRIPTION

WAYPOINTS

(CIRCLE location and record in Decimal Degrees)

Photo #	Description	Start Work (D/S end)	N 30.26328	POB	POE
157	PIPELINE + TREE DOWN	Midstream			30.26194
156	AVERAGE HOUSE IN AREA	End Work (U/S end)	W 93.11519		93.12099

NEARBY AND UPSTREAM STRUCTURES

(Fill in Numbers, Values, and Size)

CHURCHES		SCHOOLS		PUBLIC FACILITIES	
No. of Churches	0	No. of Schools	1	No. of Public Facilities	0
HOMESITES		BUSINESSES			
No. of Homesites	5	No. of Businesses			0
Average Value of Homes (X \$1,000)		Size of Businesses		S	M L

STREAM CROSSINGS

(CIRCLE type and write material, size and length)

TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge		
Culverts	3	3 RCP, 2 APPROX 10' CONCRETE BOX CULVERTS
Other or None		

UTILITIES

(CHECK the location of the utilities in the area and CIRCLE stream orientation)

	Overhead (Power, Cable, etc.)	U/S	D/S
✓	Buried (Gas, Sewer, water, etc.)	U/S	D/S
✓	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S

Remarks: ELECTRIC Substation ~ 300' FROM CHANNEL, BURIED PIPELINE APPROX N30.26339° W93.11572°

CHANNEL CHARACTERISTICS

(CHECK appropriate box for slope and fill in dimensions information)

FLOW

SLOPES		DIMENSIONS		Is Water Flowing?	
✓	1.5 : 1 or steeper	Top Width (ft.)	30	YES	NO
	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	15	Is debris accumulating? (i.e. Leaves, Trash)	
	Flatter than 3 : 1	Depth (ft.)	3	YES	NO

STATEMENT OF PROBLEM

(CHECK the boxes as needed, and CIRCLE the size of debris that applies)

DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS			BLOCKAGE	
			Light	Moderate	Heavy	% of X-Section Obstructed:	
Pine Trees	X					Less than 25%	26%-50%
Hardwoods	X	X				51%-75%	76%-100%
Shrubs							

Other (explain) WORK IS SPOTTY, IN AREA WHERE BLOCKAGE OCCURS IT IS APPROX 85%, OTHER AREAS ARE CLEAR

WORK METHOD AND LOCATION

(CHECK the box that best applies)

	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
X	From Top Banks

ACCESS TO SITE

(Explain access issues and possible difficulties)

SOME TREES ALONG TOP BANK, ACCESS IS GOOD, FIELD ROAD ACCESS FROM IRA BREAUX ROAD

Stream Visual Assessment Protocol

Owners name D&R # 019-05-015 R Evaluator's name STEPHEN TULLY Date 10/25/05
Stream name KINNER GULLY Waterbody ID number _____
Reach location IRA BROAD RD TO MARK LEBLANC RD
Ecoregion _____ Drainage area _____ Gradient _____
Applicable reference site _____
Land use within drainage (%): row crop _____ hayland _____ grazing/pasture 30% forest 50 residential 20%
confined animal feeding operations _____ Cons. Reserve _____ Industrial _____ Other: _____
Weather conditions-today FAIR COOL Past 2-5 days FAIR WARM
Active channel width _____ Dominant substrate: boulder _____ gravel _____ sand _____ silt _____ mud X

Site Diagram



Assessment Scores

	Existing	Proposed
Channel condition	7	7
Hydrologic alteration	5	5
Riparian zone	3	3
Bank stability	7	7
Water appearance	5	5
Nutrient enrichment	3	3
Barriers to fish movement	1	1
Instream fish cover	3	3

	Existing	Proposed
Pools	5	5
Invertebrate habitat	4	4

Score only if applicable

Canopy cover

Manure presence

Salinity

Riffle embeddedness

Macroinvertebrates
Observed (optional)

Overall score

(Total divided by number scored)

Existing 49/10 = 4.9 (Poor)
Proposed 49/10 = 4.9 Poor

<6.0

Poor

6.1-7.4

Fair

7.5-8.9

Good

>9.0

Excellent

Suspected causes of observed problems

DEBRIS IN CHANNEL WILL CAUSE FLOODING IN FUTURE RAINFALL EVENTS. WATER QUALITY APPEARS GOOD IN UPPER HALF BUT DEGRADATES DOWNSTREAM NEAR CONFLUENCE WITH OTHER DRAIN. RIPARIAN ZONE HAS BEEN CLEARED EXCEPT FOR SCATTERED LARGE TREES IN "PARK LIKE" SETTING

Recommendations

REMOVES DOWNED TREES AND DEBRIS TO CONTROL FLOODING. NO DAMAGE TO REMAINING-STANDING TIMBER ALONG RIPARIAN ZONE OR ADVERSE IMPACTS TO WATER QUALITY ARE EXPECTED. WITH AND WITHOUT IMPACTS ARE SAME FOR STREAM HEALTH